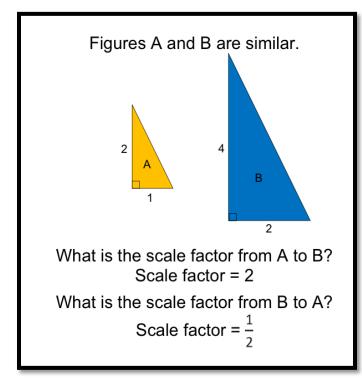


$$\frac{a}{b} = \frac{c}{d}$$

$$a:b = c:d$$

$$a \text{ is to } b \text{ as } c \text{ is to } d$$



\$4 per gallon =
$$\frac{$4}{1 \text{ gallon}}$$

70 miles per hour = $\frac{70 \text{ miles}}{1 \text{ hour}}$

Percent of change = <u>new – original</u> original



Was \$3.25 per gallon

Now \$3.85 per gallon What is the percent of increase?

$$\frac{3.85 - 3.25}{3.25}$$

$$\frac{0.60}{3.25} = 0.18$$

increase of 18%

Percent of change = <u>new – original</u> original



Was \$1200 Now only \$900 What is the percent of decrease?

$$\frac{-300}{1200}$$
 = -0.25

decrease of 25%

radical symbol

$$\sqrt{36} = 6$$

$$\sqrt{36} = \sqrt{6.6} = \sqrt{6^2} = 6$$

Squaring a number and taking a square root are inverse operations.

$$-\sqrt{36} = -6$$
$$(-6)^2 = -6 \cdot -6 = 36$$